

IBM UrbanCode Deploy



WebSphere Portal plug-in

Version 1.0 This information is under development and can change at any time; the released version will be available on ibm.com.

Note

Before using this information and the product it supports, read the information in “Notices,” on page 11.

This edition applies to version 1.0 of WebSphere Portal plug-in for IBM UrbanCode Deploy and to all subsequent releases and modifications until otherwise indicated in new editions.

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WebSphere Portal plug-in

The WebSphere® Portal plug-in enables you to do the following on WebSphere Portal cells: deploy artifacts (such as themes, skins, and PAAs), run ConfigEngine commands, and run XML Access scripts.

The plug-in works with WebSphere Portal versions 6.1, 6.1.5, 7.0, and 8.0. Both ND and stand-alone topologies are supported.

The plug-in provides steps that enables you to automate deployment of artifacts and automate running commands.

- Deploy Theme
- Install PAA (Portable Application Archives)
- Deploy Portal WAR (Web application archive)
- Execute ConfigEngine command
- Invoke XMLAccess script

The following steps provide an overview of the process you follow.

1. Create resources. You can do this manually or run an auto-discover and configure script. In this step you populate resources. You can view them in the **Resources** view. Each resource corresponds to a deployable artifact (theme, PAA, WAR, ConfigEngine command, XMLAccess script).
2. Define properties for the resources.
3. Define components, applications, and environments to automate deployment.
4. Deploy.

Configuring and deploying WebSphere Portal artifacts

Discover resources for a portal cell and use plug-in steps to deploy artifacts.

Before you begin

- The UrbanCode Deploy agent must be installed on the system that hosts the Portal Node.
- If WebSphere Application Server is deployed in a directory other than the default directory, you must set a property on the agent before you can run the **WebSphere Topology Discovery** step.
 1. Go to **Resources > Agents > <agent-name> > Configuration > Agent Properties**.
 2. Add a property named **wsadmin.path**.
 3. Set **wsadmin.path** to the fully qualified path to the wsadmin script (including the script name).

Procedure

1. Install the WebSphere Portal plug-in.
 - a. In UrbanCode Deploy, go to **Settings > Automation Plugins**.
 - b. Click **Load Plugin**.
 - c. In the dialog, click **Choose File**, then choose the WebSpherePortal-
<version>.zip file.

- d. Click **Submit**.
- .
2. Install the Application Deployment for WebSphere® plug-in. Skip this step if it is already installed.
3. Add an agent.
 - a. Hover over the row for the resource group, click **Actions**, and select **Add agent**.
 - b. Wait 10 to 30 seconds, then click **Refresh**. A twisty is now next to the agent. When you expand it, there is a sub-resource cell, **WebSphereCell**.
 - c. Hover over the row, then click **Edit**.
 - d. Enter values for the following properties.
 - WebSphere Profile Path
 - WebSphere User
 - WebSphere Password. If this value is left blank, soap.properties is used to locate the password for the user.
 Leave the **Cell Name** property blank.
 - e. Click **Save**.
4. Set Auto configure options for **WebSphereCell**.
 - a. Hover over the row for **WebSphereCell**, click **Actions**, then click **Auto Configure**.
 - b. Click **No auto configure for resource**.
 - c. Check **Websphere Topology Discovery** box.
 - d. Click **OK**.
 - e. Click **Save**.
 - f. Wait 30-60 seconds, then click **Refresh**. A twisty is now next to **WebSphereCell**. Expand it and make sure the resource tree matches your WebSphere Application Server topology. It will contain deployable artifacts for WebSphere Portal (theme, PAA, WAR, ConfigEngine command, XMLAccess script)
 - g. On the **WebSphereCell** entry, click **Edit**. Check that **Cell Name** was filled in and is correct.
5. Define properties for resources. Click on the resource, then the **Configuration** tab, then **Resource Properties**.
 - For ND topology, define the properties for Portal Cluster, Portal Primary Node, and Portal Secondary Node resources.
 - For stand-alone topology, define the properties for the Portal Node resource.
 Define the following properties:
 - **portal.home**: Portal installation directory
 - **portal.profile.home**: Portal profile directory
 - **portal.admin.user**: Portal administrator user name
 - **portal.admin.password**: Portal administrator password
 - **portal.config.port**: Portal configuration port
 - **websphere.password**: WebSphere administrator password
6. Create components for the resources. You need one component for each resource to deploy.
7. Add the components to the resources.
 - a. Go to the resource.
 - b. Choose **Actions > Add Component**

- c. Select the component to use.
8. Create the application.
 - a. Go to **Applications**.
 - b. Click **Create New Application** (if one does not exist). You can also use an existing application that is attached to the cell to manage.
 - c. Enter an application name, then click **Save**.
 - d. Click the **Components** tab, then add the component that was created by the template generation procedure.
9. Create an application environment.
 - a. In the **Resources** tab, click **Create New Environment**.
 - b. Enter an environment name, then click **Save**.
 - c. Go to the environment editing page.
 - d. Click on the environment name, then click **Add Base Resource**. Choose the group for your exemplar cell and environment.
 - e. Edit the environment properties for the component. Click **Configuration > Environment Properties**. In the **Component Environment Properties** list, enter values for each property shown. Note that values are already filled in with default values if you provided them above.
10. Create an application process of type **Deployment** for configuration and deployment.
 - a. Click the **Processes** tab.
 - b. Add a deploy step.
 - c. Drag and drop the **Install Component** step onto the process editor.
 - 1) Select the component to use. You created this component for the resource. For example, you created a component to contain a Portal WAR file to be deployed.
 - 2) Choose the process for the component. For example, you would choose Deploy Portal WAR file for a Portal WAR file component.
 - d. Click **Save**.
 - e. Save the process.
11. Run the process to test the newly created component.

Process steps in the WebSphere Portal plug-in

Deploy Portal WAR

Deploys a WAR on a WebSphere Portal server

Table 1. Input properties for the Deploy Portal WAR step

Name	Type	Description	Required
Application WAR file name	String	The name of the application WAR file. If left blank, the name of the component is used	No

Table 1. Input properties for the **Deploy Portal WAR** step (continued)

Name	Type	Description	Required
Application display name	String	Specify application display name in the administrative console. If left blank, the default display name used is constructed using the 'uid' of the application mentioned in the portlet.xml file in the WAR. The logic to construct the display name is to replace all whitespace characters in the 'uid' by an underscore character '_' and prefix 'PA_' to it	No
Application context root	String	Specify the application's context root. If left blank, '/wps/\${Application display name}' is used as the default application context root	No
Virtual Portal hostname	String	If deploying the WAR on a virtual portal, specify the virtual portal hostname	No
Virtual Portal context	String	If deploying the WAR on a virtual portal, specify the virtual portal context root	No
Use soap.client.props file	Boolean	Use soap.client.props file for Portal administrator credential	No

Deploy Theme

Deploys the static contents of a theme along with the related skins on a WebSphere Portal server

Table 2. Input properties for the Deploy Theme step

Name	Type	Description	Required
Theme static content file name	String	The name of the file containing the theme static contents. Valid file extensions are '.war' and '.zip'. The default extension is '.war'. If left blank, the name of the component is used.	No
Theme template directory	String	The name of the directory in the theme WAR/ZIP file that contains the theme template. All theme templates are usually placed under the '/themes' directory in the WAR/ZIP file. If left blank, the first child directory of the '/themes' directory is used.	No
Theme layout directory	String	The directory in the theme WAR/ZIP file under the '/themes' directory that contains the theme layout details	No
Theme unique name	String	The uniqueness for this theme within the Portal server. If left blank, the uniqueness is computed as follows - the string 'com.ibm.urbancode.customTheme.' is prefixed to the WAR/ZIP filename containing the theme artifacts.	No
Theme resource root	String	The resource root entry for the theme. If left blank, the name of the WAR/ZIP filename containing the theme artifacts is used.	No

Table 2. Input properties for the **Deploy Theme** step (continued)

Name	Type	Description	Required
Theme context root	String	The context root of the web application representing the theme. If left blank, the name of the WAR/ZIP filename containing the theme artifacts is used.	No
Theme default skin	String	The uniqueness of the skin to be used as the default skin for this theme. If left blank, the first child directory of the 'themes/skins' directory is used.	No
Theme title	String	The theme title in different locales of choice. Format: LOCALE=TITLE,[LOCALE=TITLE]. Supply the theme title in different locales as a comma separated list of locale title pairs. All leading and trailing whitespace characters in the pairs will be ignored. If left blank, the default locale used is 'en' and title is set to the name of the component.	No
Virtual Portal hostname	String	If invoking on a virtual portal, specify the virtual portal hostname	No
Virtual Portal context	String	If invoking on a virtual portal, specify the virtual portal context root	No
Use soap.client.props file	Boolean	Use soap.client.props file for Portal administrator credential	No

Execute ConfigEngine command

Executes the specified ConfigEngine command on a WebSphere Portal server

Table 3. Input properties for the **Execute ConfigEngine** command step

Name	Type	Description	Required
ConfigEngine command	String	The ConfigEngine command to execute. If left blank, the component name is used	No
Options	String	Format: NAME=VALUE,[NAME=VALUE]. Supply the name value pairs to be used as arguments to the ConfigEngine tool. This argument can be supplied multiple times for all of the additional parameters used by the ConfigEngine. All leading and trailing whitespace characters in the name value will be ignored. Do not specify the WAS and Portal administrator credentials here.	No
Use wkplc.properties file	Boolean	If selected, the wkplc.properties file is used to read WAS and Portal administrator passwords from	No

Install PAA

Installs a portal application archive (.paa) on a WebSphere Portal server

Table 4. Input properties for the **Install PAA** step

Name	Type	Description	Required
PAA filename	String	Name of the .paa file to install. If left blank, the name of the component is used	No
Assembly name	String	Name of the portal assembly to deploy. If left blank, the name of the component is used	No

Table 4. Input properties for the **Install PAA** step (continued)

Name	Type	Description	Required
Virtual Portal host name	String	If installing on a virtual portal, include the virtual portal host name	No
Virtual Portal context	String	If installing on a virtual portal, include the virtual portal context	No
Maximum time in minutes to wait for node synchronization	String	If installing on a clustered environment, define this value for the deploy-paa task	No
Maximum time in minutes to wait for wplc-wait-for-sync-to-complete task	String	If installing on a clustered environment, define this value for the deploy-paa task	No
Create WCM properties file	Boolean	If selected, the WCM properties file is created in the paa/\${appName} directory	No
Use wkplc.properties file	Boolean	If selected, the wkplc.properties file is used to read WAS and Portal administrator passwords from	No

Invoke XMLAccess script

Executes an XMLAccess script on a WebSphere Portal server

Table 5. Input properties for the **Invoke XMLAccess script** step

Name	Type	Description	Required
XML script file name	String	The name of the file containing the XML script for XMLAccess tool. If left blank, the name of the component is used.	No
Virtual Portal hostname	String	If invoking on a virtual portal, specify the virtual portal hostname	No
Virtual Portal context	String	If invoking on a virtual portal, specify the virtual portal context root	No

Table 5. Input properties for the Invoke XMLAccess script step (continued)

Name	Type	Description	Required
Use soap.client.props file	Boolean	Use soap.client.props file for Portal administrator credential	No

Appendix. Notices

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